

STATEMENT  
OF  
WORK  
(SOW)

FOR THE REBUILD OF THE AAV

VT- 400 ENGINES

NSN 2815-01-109-5052

AND THE AAV

VT-400 ENGINE WITH CONTAINER

NSN 2815-01-140-8799

SOW-04-CBG-88643C-1/1

December 17, 2001

STATEMENT OF WORK FOR THE REBUILD OF THE  
AAV VT-400 ENGINE AND THE  
AAV VT-400 ENGINE WITH CONTAINER  
NSN 2815-01-109-5052 AND NSN 2815-01-140-8799

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STATEMENT OF WORK FOR THE REBUILD OF THE  
AAV VT-400 ENGINE  
NSN 2815-01-109-5052 AND THE  
AAV VT-400 ENGINE WITH CONTAINER  
NSN 2815-01-140-8799

1.0 SCOPE. This Statement of Work (SOW), along with TM 88643B-45 establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the rebuild of the Amphibious Assault Vehicle (AAV) VT-400 Engine, hereafter referred to as the VT-400, or the VT-400 with Container. This document contains minimum requirements to restore the VT-400 or VT-400 with Container to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitations or restrictions". National Stock Number (NSN) 2815-01-109-5052 identifies the VT-400, and NSN 2815-01-140-8799 identifies the VT-400 with Container.

1.1 BACKGROUND. Rebuild is defined as that maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item; inspection of all parts or components, repair or replacement of worn or unserviceable parts using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

2.0 APPLICABLE DOCUMENTS. The following documents herein form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-129	Standard Practice for Military Marking
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2.2 Other Government Documents and Publications

DoD 4160.21-M	Defense Materiel Dispositional Manual
TM 88643B-45	Maintenance Instruction and Rebuild Standards
TM 09674A-25&P/4B	Maintenance Instructions and Repair Parts List Organizational, Intermediate and Depot Assault Amphibious Vehicle Model 7A1 Family of Vehicles and RAM/RS
TM 2350-45	DMA Standard Procedures

MI 2350-25/97	DDM Transducer Relocation
MI 2350-50/81	Smoke Generator Manual Valve Retention
ECP E05068	Change Engine And Transmission Drain Hose
ECP E05135	Inst. Of Engine and Transmission Oil Sampling Valves
ATPD 2232	Preparation For Shipment and Storage of: Engines
Engineering Drawing 2600092 CAGE 80064	Naval Sea Systems Command Drawing for the Engine, Diesel, VT-400
Engineering Drawing 2600062 CAGE 80064	Naval Sea Systems Command Drawing for the Engine, Diesel, VT-400 With Container
DoD 4000.25-1-M	MILSTRIP Manual

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance
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2.3 Industry Standards

ANSI/ISO/ASQC Q9003-1994	Quality Systems-Model for Quality Assurance in Final Inspection and Test
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Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management
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Copies of Military Standards and Specifications are available from the DoD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179 or <http://www.dodssp.daps.mil>. Copies of other Government documents and publications required by contractors in connection with specific SOW requirements shall be obtained from Commander, Marine Corps Logistics Bases, Attn: Publication Unit (Code 5863B), Albany Georgia 31704-5000, commercial telephone number (229) 639-6258 or DSN 567-6258. Copies of Engineering Drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: (Code 583-1) 814 Radford Blvd., STE 20320, Albany, Georgia, 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

### 3.0 REQUIREMENTS

#### 3.1 General Tasks. In fulfilling the specified requirements, the contractor shall:

a. Provide materiel, labor, facilities, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, rebuild, and calibrate as required to make the VT-400 or the VT-400 with Container fully operational. Upon completion of rebuild, the VT-400 or VT-400 with Container shall be Condition Code "A".

b. Conduct final-on-site testing, which may be witnessed by Marine Corps Systems Command (MCSC) (CBG), Albany, GA representative at his/her discretion.

c. The contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the VT-400 or the VT-400 with Container as specified in TM 88643B-45 and TM 09674A-25&P/4B.

d. Ensure all VT-400 or VT-400 with Container meet the configuration of Naval Sea Systems Command Drawings 2600092 or 2600062, CAGE 80064.

e. All mandatory replacement parts identified in TM 09674A-25&P/4B shall be replaced 100%. Economical replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45. All parts shall be disposed of in accordance with DoD 4160.21-M.

#### 3.2 Detailed Tasks. The following tasks describe the different phases for the rebuild of the VT-400 or the VT-400 with Container.

3.2.1 Phase I - Rebuild. The contractor shall receive VT-400 or the VT-400 with Container for rebuild. The contractor shall then disassemble the VT-400 or the VT-400 with Container into components and conduct the rebuild process. The contractor shall rebuild components in accordance with the requirements in TM 88643B-45, and this SOW. The contractor shall be responsible for supplying all equipment, tools, test equipment, and materials to conduct this effort. The contractor shall be responsible for the integration, assembly of all components. All Modification Instructions (MIs) and Engineering Change Proposals (ECPs) cited in paragraph 2.2, MI 2350-25/97, MI 2350-50/81, ECP E05068, ECP E05135 of this SOW will be applied. The configuration identification for the VT-400 is defined by the specifications annotated on current revision level of Naval Sea Systems Command Drawing 2600092. The VT-400 with Container is defined by the Specifications annotated on current revision level of Naval Sea Systems Command Drawing 2600062. A Rebuild Data Plate shall be installed centered in the rear below the item identification plate. The rebuild data plate shall contain the following (REBUILT BY:) (INSPECTED BY:) and (DATE REBUILT:). The plate shall be no more than .008 in thickness, "2 3/4" in length and 3/4" in height.

3.2.2 Phase II - Inspection, Testing, and Acceptance. Inspection, testing, and acceptance of the VT-400 or the VT-400 with Container shall be conducted in accordance with TM 88643B-45 and ANSI/ISO/ASQC Q9003-1994. The contractor shall correct any deficiencies discovered.

3.2.3 Phase III - Packaging, Handling, Storage, and Transportation (PHS&T)

a. The contractor shall be responsible for the application of preservation and packaging of items being repaired under the terms of this SOW. Items being prepared for overseas shipment or long term storage shall be in accordance with level "A" requirements of ATPD 2232, Type IV. Items scheduled for domestic shipment for immediate use or short-term storage shall be to level "B" requirements.

b. Marking for shipping and storage shall be in accordance with MIL-STD-129.

c. The Marine Corps shall provide the contractor with shipping address (es) for delivery of the repaired equipment. The Contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps shall be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 Configuration Management

a. The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If deemed necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing RFDs.

b. The creation and submission of RFDs shall be accomplished using MEARS CREATE software, which resides at a secure web site, <https://mearsweb.redstone.army.mil>. For the purpose of gaining access to the web site, the contractor shall request user-id and password privileges from the Requiring Office identified in Block 6 of the applicable Contract Data Requirements List. The contractor shall direct technical or functional questions concerning usage of MEARS CREATE software to the Requiring Office for guidance. The contractor shall notify the Requiring Office by electronic mail when completed MEAERS RFDs are ready for formal submission.

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 573-2) will coordinate GFE/GFM requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the Contractor for signature on an annual basis to establish a chain of custody and property responsibility for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. (This can be done by mailing (Materiel Management Department, Management Control Activity (Code 573-2) 814 Radford Blvd, STE 20320, Albany GA 31704-0320) or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD3148).

3.5 Contractor Furnished Materiel (CFM). The Contractor may requisition materiel as required in the performance of this SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to the contractors on the requisitioning process. The decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

### 3.6 Quality Assurance Provisions

The performance of the contractor's quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the MCSC (CBG), Albany, GA representative during contract performance. Inspection may be accomplished at any work location. The MCSC (CBG), Albany, GA representative requires at a minimum, two weeks notice of acceptance tests to allow for sufficient time for the MCSC (CBG), Albany, GA representative to witness the test if he or she desires. Inspection by the MCSC (CBG), Albany, GA representative of acceptance tests, materials and associated list furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet the SOW requirements which may be disclosed prior to final acceptance.

The contractor shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9003-1994. The contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by the MCSC (CBG), Albany, GA representative. Noncompliance with these quality assurance procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such inspection, it shall be the contractor's responsibility to ensure that the entire system meets the performance requirements of this SOW.

4.0 Reports. All reports deliverables shall be submitted in hard copy to Marine Corps Systems Command, Attn: (CBG), 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, unless directed otherwise in a Contract Data Requirements List

4.1 A Monthly Production Status Report shall be submitted summarizing the progress and status of the VT-400 Engine or VT-400 Engine With Container.

<b>CONTRACT DATA REQUIREMENTS LIST</b> (1 Data Item)					Form Approved OMB No. 0704-0188			
<small>The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</small>								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TOP _____ TM _____ OTHER _____ <b>X</b>				
D. SYSTEM/ITEM AAV VT-400 Engine, Engine w/Cont			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO.  A001	2. TITLE OF DATA ITEM  Contractor's Progress, Status, and Management Report			3. SUBTITLE  Management				
4. AUTHORITY (Data Acquisition Document No.)  DI-MGMT-80227			5. CONTRACT REFERENCE  SOW 4.1		6. REQUIRING OFFICE  MCSC (CBG), Albany, GA			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED  A	10. FREQUENCY  MTHLY	12. DATE OF FIRST SUBMISSION  See Blk 16		14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16		a. ADDRESSEE	b. COPIES		
						Draft	Final	
							Reg	Repro
16. REMARKS Contractor format is authorized.  Blk 4 - Tailor DI-MGMT-80227 as follows: Delete paragraphs 10.3g, 10.3h, 10.3i, and 10.3j.  Blk 12 - The reporting period shall be from the first to last business day of each month. Initial submission shall be 60 DAC.  Blk 13 - Subsequent submissions shall be 10 days after the last business day of each month.  Distribution StatementA: Approved for public release; Distribution is unlimited.					MCSC (CBG)	0	1	0
					Albany, GA			
15. TOTAL					0	1	0	
G. PREPARED BY  <i>[Signature]</i>		H. DATE  12/17/01		I. APPROVED BY  <i>[Signature]</i>		J. DATE  12/17/01		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE



